(54) Title: APPLICATION-BASED ACCESS CONTROL SYSTEM AND METHOD USING VIRTUAL DISK
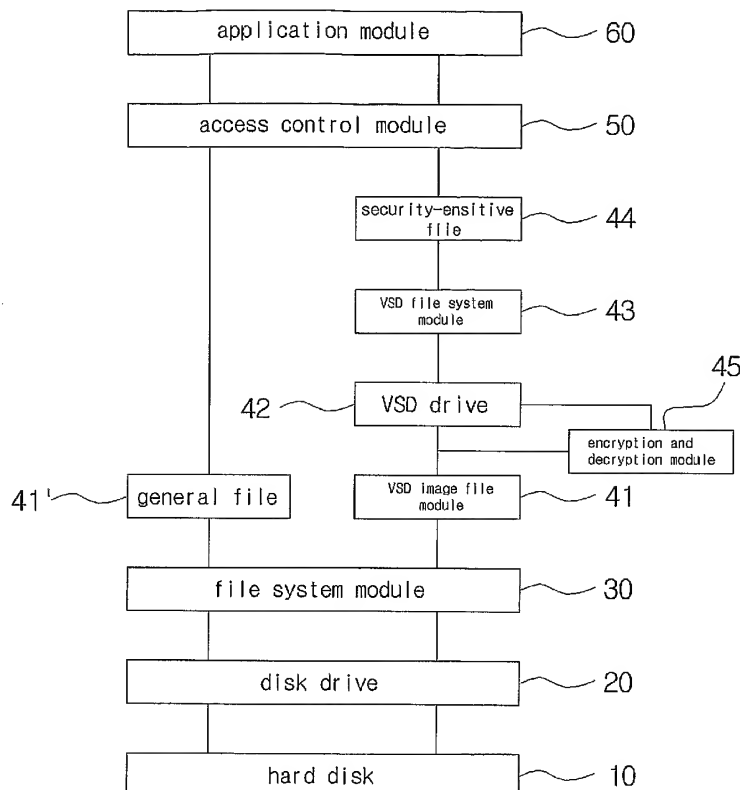
(57) Abstract: An application-based access control system is disclosed. The access control system includes a Virtual space of a hard disk in a file form; a VSD drive for processing security-sensitive files within the VSD image file module; an encryption and decryption module for encrypting and decrypting data input/output between the VSD image file module and the VSD drive; a VSD file system module for allowing an operating system to recognize a separate disk volume at a time of access to the security-sensitive files within the VSD image file module; and an access control module for determining access by determining whether an access location is a disk drive or the VSD drive and the application module has been authorized to access a certain file at a time of access to the file, which is stored on the hard disk, to perform tasks in the application module. Secure Disk (VSD) image file module occupying a certain

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